



## **Ir. Dr. Ng Kean Eng**

**Ir. Dr. Ng Kean Eng** is the founder of, and a Chief Data Scientist at ICA 40 Sdn. Bhd. He obtained his PhD in Production and Information Systems Engineering at Muroran Institute of Technology, Japan. His remarkable PhD research won him three awards from the renowned engineering societies – Japan Society of Design Engineering and also Machine Tool Engineering Foundation. Ir. Dr. Ng Kean Eng is a Certified Lead Auditor and highly experienced Supplier Quality Manager based in Valeo Japan. His contributions include developing enormous OEM factories in Japan, South Korea, Taiwan, China and other ASEAN countries. Currently, he is developing the Road Map for Industry 4.0 in Advanced Data Analytics & Statistic Analysis to support Malaysia Industry4WRD.

## **ACADEMIC**

Doctor of Engineering, Muroran Institute of Technology 2000-2003,  
Master of Engineering, Muroran Institute of Technology 1998-2000,  
Bachelor of Engineering, Muroran Institute of Technology 1996-1998

## **CERTIFICATION & LICENCE**

HRD CORP Accredited Trainer (ID 12694), 2024.  
HRDF Certified Train The Trainer (TTT ID 5152 ), 2017.  
Valeo Leader Auditor, 2006.  
2nd grade skill metal stamping, 2004.

## **RESEARCH EXPERIENCE**

1. Development of Industrial Internet of Things (IIoT) solution for optimizing maximum demand, 2024.
2. A statistical feedforward control for electric power under monitoring multiple physical factors, 2023.
3. Big data analytics and statistical analysis for smart factory, 2022.
4. Study of H<sub>2</sub> Source for Fuel Cell Systems with Sn, 2004.
5. Design of Liquefied Valve for Micro compressor, 1997-2003.
6. Ultrasonic Vibratory Cutting for Aluminium, 1996.

# SKILLS

## Research & Development

- Research & Development on Time Series Analysis and Control (2021~)
- Research, Design & Manufacture Liquefied Valve for Air Micro-compressor.

## Manufacturing Process Development

- Start-up Production lines of Aluminium Die Casting & Forging, Metal Stamping & Drawing, Plastic Injection Molding.
- Value Stream Analysis.
- Design of Experimental.

## Quality & Management

- Strengthening of 5S Foundation.
- Quick Response Quality Control based on **SanGenShugi**.
- KPIs Implementation
- Works with Standard.

# SERVICE

## President, 2025~2027

- Malaysia Muroran Institute of Technology Alumni Association.

## President, 2023~2025

- Malaysia Rotary Yoneyama Alumni Association (MRYA).

## Industry Advisor, Universiti Tuanku Abdul Rahman (UTAR), 2023~2026.

- Industry Advisor for the Bachelor of Mechanical Engineering with Honours programme under the Lee Kong Chian Faculty of Engineering and Science (LKC FES)

## Professional Consultant Agreement, MIMOS, Malaysia, 2019–2020

- Predictive Maintenance Vibration Diagnosis System for Rotating machinery.

# EMPLOYMENT HISTORY

## Technical & Quality Consultant

### **Malaysia Timber Council & SIRIM STS, 2020~till date**

- Factory Transformation Program for Timber and Furniture Industry.
- Factory Transformation Program for Rubber Industry.

### **Data Industry Sdn Bhd, Malaysia, 2018~2020**

- Data enablement, Analytic, Deep Learning and Visibility
- Industry 4.0 Readiness Assessment

### **iPlast40 Sdn Bhd, Selangor, Malaysia, 2017~2018**

- First Step Injection Molding 4.0 for PSMB INBASE Program
- Design & Develop Road Map of Quality 4.0 for Malaysian Industries

### **AKM, Kuala Lumpur, Malaysia, 2016–2017.**

#### **Reduced internal quality rejection & Saved over-time at weekend.**

- Die Casting Internal quality rejection was successfully proven with the reduction of 9.1% to 5%.
- Successfully managed to save production operating on Sunday.

### **Supplier Quality Assurance (SQA) Manager**

### **Valeo Japan, Kohnan, Japan, 2006–2013, (Malaysia, 2013-2016).**

#### **Process Development & Quality Assurance for resourcing suppliers**

- Management of Developed 200 OEM suppliers in Japan, Korea, China, ASEAN and European countries.
- Managed and supervised 20 SQA Engineers in Asia Regional Operation.